Richmond Refinery LPS Bulletin – Safety Potential Exposure during entry into V-1169B





IPS Control: 1619775

Contact Information:

Location:

D&R – West 5-Rheniformer

Contact Information:

Name: Silvano Preciado Phone (CTN): 242-2352 sipr@chevron.com

Name: Kyle Drach Phone (CTN): 242-4420 kydr@chevron.com

5 Steps of Stop Work Authority

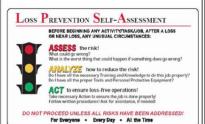
• Stop the Unsafe Activity

• Notify the person in charge (Supervisor, HO, Head Mech.) so the issue can be addressed.

• Involve the right people, discuss the concerns and correct the issue as necessary.

• Resume work

Share what you learned with other potentially impacted employees and/ or contractors



You are too Important to lose

Incident Description:

On September 3, 2009, an Inspector entered V-1169B Off-Gas Compressor Knockout Drum in the Crude Unit at D&R. Before the inspector entered the vessel, it had been chemically cleaned, blinded, and an entry permit had been issued.

After completing the inspection, the inspector requested the interior of the vessel be cleaned by grit blasting. After the cleaning, the vessel was re-sniffed by Operations, and the permit was updated for entry.

The inspector re-entered V-1169B and detected an ammonia odor. The inspector immediately evacuated the vessel and notified operations. Chevron Fire Department (CFD) re-checked the vessel for ammonia and found that it was present.

A TOP investigation was conducted.

Findings:

- The chemical cleaning process did not remove all contaminants from V-1169B.
- The initial entry process did not test for ammonia because there
 was no PPE matrix to identify the known hazards such as
 ammonia.

Lessons Learned:

 Confined space conditions can change with the disturbance (e.g. grit-blasting) of process sludge and/or scale causing hazardous vapors to be released. Further assessment or recleaning of the equipment may be required.

What Worked Well:

 The Inspector stopped work and involved the right people in resolving the problem after detecting an ammonia odor.

Recommendations:

- 1) The D&R PPE matrix was revised to include V-1169B.
- 2) Validate the PPE matrix prior to shutdown/turnaround activity.
- Recognize the potential for changing conditions when cleaning and working inside and outside equipment.

Tenets of Operation Violated

No Tenets were found to be violated.

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